

## Quercus lyrata - Quercus laurifolia / (Arundinaria gigantea) Forest

COMMON NAME Overcup Oak - Diamondleaf Oak / (Giant Cane) Forest

### SYNONYM

PHYSIOGNOMIC CLASS Forest (I.)

PHYSIOGNOMIC SUBCLASS Deciduous forest (I.B.)

PHYSIOGNOMIC GROUP Cold-deciduous forest (I.B.2.)

PHYSIOGNOMIC SUBGROUP Natural/Semi-natural (I.B.2.N.)

FORMATION Seasonally flooded cold-deciduous forest (I.B.2.N.e.)

ALLIANCE *Quercus lyrata* - (*Carya aquatica*) Seasonally Flooded Forest Alliance

CLASSIFICATION CONFIDENCE LEVEL 1

USFWS WETLAND SYSTEM Palustrine

### RANGE

#### *Globally*

Current global distribution is the Atlantic Coastal Plain of North Carolina and South Carolina. Additional assessment is needed.

#### *Congaree Swamp National Monument*

This community likely occurs throughout the lower portions of the park.

### ENVIRONMENTAL DESCRIPTION

#### *Globally*

*Quercus lyrata* - *Quercus laurifolia* / (*Arundinaria gigantea*) Forest has been newly described based on data from the Congaree Swamp National Monument. Global environmental conditions await description.

#### *Congaree Swamp National Monument*

*Quercus lyrata* - *Quercus laurifolia* / (*Arundinaria gigantea*) Forest occurs in backswamps and on alluvial flats.

### MOST ABUNDANT SPECIES

#### *Globally*

Global description is the same as the Monument-specific description below.

#### *Congaree Swamp National Monument*

<u>Stratum</u>	<u>Species</u>
Tree canopy	<i>Quercus lyrata</i> , <i>Fraxinus pennsylvanica</i> , <i>Carya aquatica</i>
Tree subcanopy	<i>Quercus laurifolia</i> , <i>Acer rubrum</i> , <i>Fraxinus pennsylvanica</i> , <i>Planera aquatica</i>
Shrub	<i>Arundinaria gigantea</i> , <i>Sabal minor</i> , <i>Ilex decidua</i>
Herbaceous	<i>Carex lupulina</i> , <i>Boehmeria cylindrica</i> , <i>Commelina virginica</i> , <i>Justicia ovata</i>
Vine / liana	<i>Ampelopsis arborea</i> , <i>Smilax tamnoides</i>

### DIAGNOSTIC SPECIES

#### *Globally*

Global diagnostic species are the same as the Monument-specific species below.

#### *Congaree Swamp National Monument*

*Quercus lyrata*, *Quercus laurifolia*, *Arundinaria gigantea*

**USGS-NPS Vegetation Mapping Program**  
**Congaree Swamp National Monument**

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**VEGETATION DESCRIPTION**

*Globally*

The global description currently is the same as the park-specific description below.

*Congaree Swamp National Monument*

This forest has well-developed canopy, subcanopy, shrub, and herbaceous strata. The canopy is dominated by *Quercus lyrata* often in combination with *Quercus laurifolia*. Other species that may be present in the canopy include *Quercus phellos*, *Taxodium distichum*, *Planera aquatica*, *Liquidambar styraciflua*, *Ulmus americana*, *Fraxinus pennsylvanica*, *Carya aquatica*, *Populus heterophylla*, *Acer rubrum*, and others. Along with the canopy species, other species that may be present in the subcanopy are *Ulmus alata*, *Ilex decidua*, *Carpinus caroliniana*, and *Diospyros virginiana*. The shrub layer ranges from sparse to a moderate coverage by species of the canopy and subcanopy layers with *Sabal minor* and *Arundinaria gigantea*. Herbaceous coverage usually is well-developed, and dominant species include *Carex jooorii*, *Carex intumescens*, *Carex lupulina*, *Boehmeria cylindrica*, *Justicia ovata*, *Saururus cernuus*, and *Leersia lenticularis*. Other herbaceous species that occur include *Commelina virginica*, *Lobelia cardinalis*, *Ludwigia palustris*, *Diodia virginiana*, *Gratiola virginica*, and others.

**OTHER NOTEWORTHY SPECIES**

The exotic herb *Ludwigia uruguayensis* is present in occurrences of this community.

**CONSERVATION RANK**                      G3G5

**RANK JUSTIFICATION**

**DATABASE CODE**                      CEGL007801

**COMMENTS**

**REFERENCES**